

WILSON COUNTY-TN STATE FAIR

ELECTRIC ARC WELDING CONTEST

Registered participants (limit of 25) will need to meet at the Motorsports arena at 9:00. **Please be sure to turn in your signed liability waiver when you register online.** The contest will take place at TCAT-Hartsville's Wilson County Campus a couple of minutes from the fairgrounds. Please be sure to read the rules and supply list carefully. If you have any questions, please contact Josh Eason.

1. **Contestants must bring any amount of metal for practice.**

2. Contestant must furnish all materials and equipment needed, except welder, to complete skill including **12 clean (oil and rust removed) pieces of 1/4" mild steel. Metal should be at least 1" wide and 6-7" long.** Contestants will also need to bring up to 12 pieces of practice metal.

3. Contestants will be allowed to bring a base plate to ensure a level welding surface. No larger than a 1' x 1' square is allowed.

4. Contestants will complete a Butt Weld, Lap Joint, and T-Joint. The Butt Weld will **only** be welded on one side.

5. No grinding permitted before or after welding: jigs and clamps may not be used to position metal. No magnets shall be used. No prior marks or lines may be drawn on the metal for aid in layout of the welds prior to the contest. Contestants may mark metal after the contest begins with soapstone or a marker. This is allowed to assist them in marking the center of the metal for the T-Joint and Lap Joint.

6. No electric buffer – The contestant must use a chipping hammer and/or a wire brush. The contestant must wear safety glasses or a face shield (auto helmet). No safety glasses are needed if an auto helmet is used.

7. The contestant shall use the contest metal as they see fit but the contestant must complete the three different types of welds using only the 12 pieces of contest metal.

Turn in the best butt, lap and T welds for scoring. NOTE: Only one pass is permitted on each side for lap and T Joint. Only one side of the Butt Well shall be welded.

8. E-7018 electrodes are required for this event and they must be 1/8" or 3/32" in diameter. Contestants must provide their own electrodes.

9. Contestant shall determine which size rod (1/8 or 3/32) to be used.

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- A. Lap - 6 - 7" beads
- Tee - 6-7" beads
- Butt - 6-7" beads, all contestants

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